TDM Series

Mobile Direct Thermal Printer

Get Your Receipts Anywhere

TSC's new mobile barcode printer line, the TDM Series, is intelligently designed for on-the-go printing. Mobile printing is an excellent solution for any business that needs to print on demand. The TDM Series is equipped to operate across different platforms with multiple connectivity options. Its lightweight, durable and flexible design, coupled with ease of operation without sacrifice of functionality, is especially critical for retail and mobile point of sale (MPOS) applications.

The TDM Series' rugged palm-size design has passed extensive testing for consistent, long-lasting performance. And its real-time printer health status provides two important functions: 1) The self-diagnostic TPH Care Mechanism ensures stable, high-quality printouts every time, and 2) The TDM-30 Battery Management solution effectively monitors the charging status to maximize battery capacity. With the TDM-20 1130mAh and TDM-30 3080mAh battery, workers can use the printers for an entire shift without downtime.

The TDM Series has a wealth of tools that guarantees easy integration into your MPOS system: Bluetooth is MFi certified and can be connected with an NFC tag; ESC/POS language is supported and has an OPOS driver for POS systems; a smartphone application for both Android and iOS is available for browser-based applications; and Software Development Kits (SDKs) and printer languages are available for all your other software integration needs.

Key Features

Rugged Palm Size Design

- Drop test: 2.5m with case; MIL-STD 810G standard
- IP54 (dust/water-resistant) rating with case
- Tumble test: 1.0m with case

Flexibility in Various Media Support

- Optional media hanger for various media width ranging from 20mm to 70mm
- Various sensors for a wide selection of media types

Self-Diagnostic TPH Care Mechanism

- An advanced mechanism allows for real-time printhead health status to ensure stable and high-quality printouts for maximum cost-effectiveness

Smart Battery with TSC Printer Management

- Centralized battery health monitoring system ensures complete shifts
- Maximize battery lifetime to avoid hidden costs and downtime

Integrated Software Pack

- OPOS driver for POS applications
- With new iOS & Android APP, mobile configuration and web print becomes possible

Multiple Connectivity

- USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag
- USB 2.0 + 802.11 a/b/g/n Wi-Fi with Bluetooth 5.0 + Passive NFC tag

Applications

Public Utilities

- Utility Billing/Meter Reading
- Parking Citations

Warehouse & Logistics

- Direct Store Delivery
- Proof of Delivery and Pickup

Entertainment & Hospitality

- Mobile Ticketing
- Table Side Ordering

Retail

- Receipt
- Field Sales/Repairs

Healthcare

- Point of Care
- Laboratory

Transportation

- Onboard Ticketing



Mobile Printing For Your Business

Key Benefits



Certified Rugged Palm Size Design

The TDM Series has passed extensive testing – IP rating, drop and tumble tests to maximize its functionality in harsh environments. With an optional protective case, TDM Series printers are rated IP54 against dust and water in daily tasks. By simulating real-world workplaces for on-the-go mobile workers, the TDM Series has been certified with a 2.5m drop test using its protective case, MIL-STD-810G standard drop test and a 1m tumble test.

Smart Battery Solution

The TDM-30 smart battery option lets you monitor your fleet of batteries for both charge level and number of charge cycles using the Battery Management System found in the TSC Printer Management Utility. This allows you to understand the battery status while in operation and to determine when batteries are aging and need to be replaced. The result is having the right number of batteries with the right charge capacity to keep operations running smoothly.



Self-Diagnostic TPH Care Mechanism

The TDM Series is equipped with a self-diagnostic TPH Care Mechanism, which includes an early warning function. By scanning and detecting any unhealthy printhead dots during the printing process, the TPH Care Mechanism proactively conducts a real-time TPH (Thermal Printhead) health check, maximizing printout quality and worker productivity while minimizing consumable waste.



Integrated Software Pack - OPOS/SDKs

The TDM Series not only supports OPOS, but also provides mainstream platform driver support for Windows, Android, iOS and WinCE/Mobile. Having the OPOS/SDKs software pack integrated into the TDM Series mobile printer allows users to easily use the library, saving programming time and increasing staff productivity. After integration, the customized software can be leveraged, tailored and optimized between POS terminals and printers for port communications, connections and transferring of print commands.



Superior TSC Mobile Utility

The TSC Mobile Utility enables mobile configuration and web printing via iOS and Android APP. It can be installed onto handheld devices to change remote printer settings and directly print from browser-based applications. This tool allows users' effortless access to website content and printing solutions through TSC printers via Bluetooth or Wi-Fi connections. To increase worker productivity, remote mobile configurations allow for real-time printer setting adjustments, status check and troubleshooting anywhere.



TDM Series Accessories

TDM-30	TDM-20	Description	Factory Option	User Option
		**IP54-Rated Protective Case with Shoulder Strap** Add an extra layer of protection for harsh environments with a protective case. While in the case, the printer is IP54-rated for resistance to windblown water and dust. Includes shoulder strap.		V
		**Shoulder Strap Kit** Designed for carrying the printer directly without a protective case.		V
		**Belt Clip** Use the belt clip for a complete hands-free solution.		V
		**1-Slot Docking Cradle** Easily charge the printer without removing the battery.		V*
		**4-Slot Docking Cradle** Charge multiple printers in either horizontal or vertical positions. Stand the cradle upright in areas where space is at a premium.		V*
	N/A	**1-Slot Battery Charger** Use the 1-slot charger to quickly charge the battery without any downtime.		V
		**4-Slot Battery Charger** The 4-slot charger is well-suited for heavy-duty missions.		V
	N/A	**Li-ion Smart Battery** The Li-ion smart battery works with TSC Printer Management Utility to monitor battery information, charge cycles, and remaining capacity.		V
		**12-24V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car		V
		**12-60V DC Vehicle Power Adaptor** For automobile vehicle plug to charge on the car		V
		**12-60V DC Vehicle Open End Power Adaptor** For charging on the car with open-ended wire		V
		**Vehicle Mount Adaptor** Easily mount the printer on a forklift.	V	
		**Linerless Kit** The linerless kit suits linerless printing needs.	V	
	N/A	**Media Hanger Kit** A flexible kit to accommodate various media widths.		V
		**Media Spacer Kit** The media spacer kit is able to support specific media width applications.		V

*Please choose the correct docking cradle for the printer

TDM Series Specifications

Model	TDM-30	TDM-20
Resolution	8 dots/mm (203 dpi)	
Printing Method	Direct Thermal	
Max. Print Speed	Up to 102mm (4")/second	
Max. Print Width	72mm (2.83")	48mm (1.89")
Max. Print Length	2,794mm (110")	
Enclosure	Plastic	
Physical Dimension	105.0mm (W) x 116.0mm (H) x 49.5mm (D) 4.13" (W) x 4.57" (H) x 1.95" (D)	79.0mm (W) x 116.0mm (H) x 36.5mm (D) 3.11" (W) x 4.57" (H) x 1.44" (D)
Weight (Including Battery)	375g (0.83lbs)	215g (0.47lbs)
Drop Specification	1.8m (5.9ft), with IP54 case can be 2.5m (8.2ft)	
IP Rating	IP42 (without case), IP54 (with case)	
Max. Roll Capacity	40mm (1.6") OD	30mm (1.2") OD
Processor	32-bit RISC CPU	
Memory	• 16 MB Flash memory • 32 MB SDRAM	
Interface	Either one selected • USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag • USB 2.0 + 802.11 a/b/g/n wireless with Bluetooth 5.0 + Passive NFC tag	
Power	7.4V DC, 3080mAh Li-ion rechargeable battery	7.4V DC, 1130mAh Li-ion rechargeable battery
Operation Switch, Button	3 buttons (On/off, feed, and cover-open)	
User Interface	Either one selected • 1 LED for printer status, 3 LEDs for battery status, 1 LED for wireless status • 1 LCD, 1 LED for printer status, 1 LED for wireless status	1 LED for printer status, 3 LEDs for battery status, 1 LED for wireless status
Sensors	• Head open sensor • Reflective sensor mode • Transmissive sensor mode (factory option)	• Head open sensor • Reflective sensor
Internal Fonts	• 8 alpha-numeric bitmap fonts • One Monotype Imaging® CG Triumvirate Bold Condensed scalable font	
Barcode	• 1D barcode Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, China POST, GS1 Data bar • 2D barcode PDF-417, Maxicode, DataMatrix, QR code, Aztec	
Printer Language	TSPL-EZD (EPL2, ZPL2, DPL), ESC-POS or CPCL emulation	
Media Type	• Reflective sensor model: receipt paper, bline receipt paper (black mark in printing side) & selected label • Transmissive sensor model: receipt paper, bline receipt paper (black mark in printing side or backside) & label with gap.	Receipt paper, bline receipt paper (black mark in printing side) & selected label
Media Width	Max. 80mm (3.15") *with media hanger: 20mm - 70mm (0.79" - 2.76") (user option)	Max. 58mm (2.28")
Media Thickness	0.06mm - 0.16mm (2.4 - 6.3mil)	0.06mm - 0.10mm (2.4 - 3.9mil)
Media Height	Label: Min. 25.4mm (1")	
Environment Condition	Operation: -15 - 50°C (5 - 122 °F), 10 - 90% non-condensing Storage: -30 - 70°C (-22 - 158 °F), 10 - 90% non-condensing	
Environmental Concern	Comply with RoHS, WEEE, REACH, China RoHS	
Accessories	• Quick start guide • Belt clip	• Li-ion battery • Power adaptor
Limited Warranty	• Printer: 2 years • Printhead: 25km (1 million inches) or 12 months which comes first • Platen: 50km (2 million inches) or 12 months which comes first	
Factory Options	• 802.11 a/b/g/n with Bluetooth 5.0 • Vehicle mount adaptor • Printer ready for docking cradle • Linerless kit • Enhanced printhead	• 802.11 a/b/g/n with Bluetooth 5.0 • Vehicle mount adaptor • Printer ready for docking cradle • Linerless kit
User Options	• Micro-B USB 2.0 cable • IP54-rated protective case with shoulder strap • Shoulder strap kit • Belt clip • 1-slot docking cradle • 4-slot docking cradle • 1-slot battery charger	• 4-slot battery charger • Li-ion battery • 12-24V DC vehicle power adaptor • 12-60V DC vehicle power adaptor • 12-60V DC vehicle open end power adaptor • Media hanger kit • Media spacer kit

*Refer to the accessories table above for details



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